EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6	("20030168679" | "20060102827" | "4994664").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/10 16:19
S2	1	"10576273"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/10 16:22
S3	1	"10576273"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 03:41
S4	2	("20050110104").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/23 14:55
S5	0	Jp-2000039503 5-251673	JPO; DERWENT	OR	OFF	2009/03/23 18:00
S7	2	Jp-2000039503-$	JPO; DERWENT	OR	OFF	2009/03/23 18:00
S8	4	Jp-2000039503-$ jp-05251673-$	JPO; DERWENT	OR	OFF	2009/03/23 18:01
S9	12	Toshikiyo near2 Kimiaki).in. and matsushita.asn.	JPO; DERWENT	OR	OFF	2009/03/23 19:23
S10	44	("3746454" | "4410804" | "4644148" | "4649351" | "4708436" | "4878735").PN. OR ("4994664").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/29 14:56
S11	3	("20050161589" | "4994664" | "6100525").PN. OR ("7329871").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/29 14:58
S12	0	("jp-2001-108812$").PN.	JPO; DERWENT	OR	OFF	2009/03/29 22:12

S13	0	("jp-2001-108812").PN.	JPO; DERWENT	OR	OFF	2009/03/29 22:13
S14	0	("jp2001108812").PN.	JPO; DERWENT	OR	OFF	2009/03/29 22:13
S15	3	("2001108812").PN.	JPO; DERWENT	OR	OFF	2009/03/29 22:13
S16	0	("("photosensor"Photo$1sensor"lightdetector""lightsensor""imagesensor"chargecoupleDevice"CCD (solidnearstatenearimag$3)").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/29 23:40
S17	98824	("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/29 23:41
S18	128	(light near transmit$4 near (film layer)) with (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:47
S19	27	S17 and S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:48
S20	6	S19 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:49
S21	234	(light near transmit$4 near (film layer)) same (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:52
S22	55	S17 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:53

S23	15	S22 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:53
S24	407112	("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/29 23:55
S25	13265	(light near4 (film layer)) same (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:56
S26	1764	S24 and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:57
S27	36	S26 and (pixel near2 array) and (unit near2 pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:58
S28	11	S27 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/29 23:59
S29	4	S28 and ((red green blue) with pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:01
S30	1100	S17 and (pixel near2 array) and (unit near2 pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:12

S31	726	S30 and (photodiode Photo$1diode Photodetector photo$1detector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:13
S32	177	S31 and ((red green blue) with pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:13
S33	41	S32 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:13
S34	0	"1010434109"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:50
S35	0	"10434109"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:51
S36	2	"6734031".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/30 00:51
S37	2	("20030215967").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 00:52
S38	0	((pixel same (wiring near layer) same (photodiode photo$1diode) same aperture) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 03:32

S39	23	(pixel same (wiring near layer) same (photodiode photo$1diode)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 03:32
S40	98824	("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 04:11
S41	4	S40 and ((light near transmitt$3) with (BPSG)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 04:11
S42	1180	257/291.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 05:08
S43	822	S42 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 05:08
S44	2115	257/432.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 05:08
S45	721	S44 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/03/30 05:09
S46	12	("20030168679" | "20030215967" | "20040000681" | "20050061950" | "20060102827" | "4994664").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/04 18:03

S47	44	("3746454" | "4410804" | "4644148" | "4649351" | "4708436" | "4878735").PN. OR ("4994664").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/04 18:08
S48	3	("2001108812").PN.	JPO; DERWENT	OR	OFF	2009/11/04 18:19
S49	12	((KIMIAKI) near2 (TOSHIKIYO)).INV.	US-PGPUB; USPAT	OR	OFF	2009/11/04 18:21
S50	0	("("20020117671" | "20030197210" | "20030231395" | "20040248337" | "20050023434" | "20050061950" | "20050122593" | "4994664" | "5561558" | "5696371" | "5978139" | "6927915" | "6947215").PN.").PN.	JPO; DERWENT	OR	OFF	2009/11/04 18:25
S51	25	("20020117671" | "20030197210" | "20030231395" | "20040248337" | "20050023434" | "20050061950" | "20050122593" | "4994664" | "5561558" | "5696371" | "5978139" | "6927915" | "6947215").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/04 18:25
S52	4	("20060284052" | "20060285228" | "20070146531" | "20070164329").PN.	US-PGPUB; USPAT	OR	OFF	2009/11/04 18:32
S53	1	("20060102827").PN.	US-PGPUB; USPAT	OR	OFF	2009/11/04 18:34
S54	15	("20030044729" | "20030168679" | "20040042081" | "20040125048" | "20050057815" | "20050152036" | "20050195485" | "20060102827" | "4994664" | "5227915" | "5561558" | "5742433" | "5815327" | "6524772" | "6927915").PN.	US-PGPUB; USPAT	OR	OFF	2009/11/04 18:37
S55	0	("6524772").URPN.	USPAT	OR	OFF	2009/11/04 18:43
S56	0	("6524772").URPN.	USPAT	OR	OFF	2009/11/04 18:43
S57	47	("4246338" | "4637697" | "4679901" | "4708436" | "4846552" | "4895790" | "4936665").PN. OR ("5227915").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/04 19:08
S58	4	("20030164922" | "20060028728" | "20060125945" | "20060125948").PN.	US-PGPUB; USPAT	OR	OFF	2009/11/04 19:13
S59	4	("20030164922" | "20060028728" | "20060125945" | "20060125948").PN.	US-PGPUB; USPAT	OR	OFF	2009/11/04 19:25
S60	2	"11423776"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/04 19:34
S61	19	("20030044729" | "20030044729" | "20030168679" | "20040042081" | "20040125048" | "20040125048" | "20050057815" | "20050195485" | "20060102827" | "20060278948" | "20060285228" | "20070035721" | "20070146531" | "20070164329" | "4994664" | "5227915" | "5561558" | "5742433" | "5742433" | "5815327" | "6524772" | "6927915").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/04 19:37
S62	4	"2000039503"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/04 20:36

S63	2	"11423776"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/04 20:46
S64	17	(phase with grating with image with sensor).ab. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/04 22:59
S65	2	11/423776	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/05 13:18
S66	710	257/432.cor.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/05 13:20
S67	2	(("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride")) same (layer film) same refrative	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:22
S68	11424	(("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride")) same (layer film) same refractive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:22
S69	8	S66 and S68 and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:23
S70	41094	(("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride")) and refractive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:25

S71	24	S66 and S70 and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:25
S72	0	("6524772").URPN.	USPAT	OR	OFF	2009/11/05 13:32
S73	7	("4643752" | "4645523" | "5073007" | "5151826" | "5161059" | "5486950").PN. OR ("5815327").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/05 13:33
S74	13	("20050122417" | "5633527" | "6147390" | "6188094" | "6211916" | "6583438" | "6605850" | "6656761" | "6665014" | "7075164" | "7136217" | "7245324" | "7265432").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/05 13:36
S75	3	S66 and (grating near5 lens) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:39
S76	5	S66 and (grating same lens) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:40
S77	13	S66 and (grating) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 13:41
S78	16	430/231.cor. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 14:08
S79	395	430/321.cor. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/05 14:09
S80	341	(wavelength and incident and (ray light) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))).clm. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 11:23

S81	20	(wavelength and incident and (ray light) and shorter and (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O. sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))).clm. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 11:34
S82	107	((wavelength with incident with (ray light) with shorter) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O. sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 11:41
S83	2	("20030044729").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/06 14:53
S84	28	("20030044729" | "20030168679" | "20040042081" | "20040125048" | "20050057815" | "20050152036" | "20050195485" | "20060102827" | "4994664" | "5227915" | "5561558" | "5742433" | "5815327" | "6524772" | "6927915").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/06 18:46
S85	47	("4246338" | "4637697" | "4679901" | "4708436" | "4846552" | "4895790" | "4936665").PN. OR ("5227915").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/06 18:49
S86	2	"7297919".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/10 14:07
S87	316	((grating near4 lens) and (image near2 sensor)) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 14:42
S88	2	"5742433".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/10 23:00
S89	57	("4400057" | "4798446" | "4936665" | "5073007" | "5218471" | "5227915" | "5283690" | "5315676" | "5377044").PN. OR ("5742433").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/10 23:06

S90	2	"6821810".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/10 23:13
S91	106344	("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/10 23:25
S92	34	S91 and (microlens with (offset off$1set off$1axis offaxis)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 23:25
S93	11	("20010026322" | "20030071271" | "5610390" | "5682203" | "5734155" | "5986704" | "6008511" | "6344666" | "6518640" | "6642965").PN. OR ("7427742").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/10 23:38
S94	2	("20040042081").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/11 01:01
S95	0	("200501954851").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/11 01:04
S96	2	("20050195485").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/11 01:05
S97	4	S91 and ((microlens micro-lens micro$1lens) with (sub$1wavelength subwavelength)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 01:23

S98	11	S91 and ((microlens micro-lens micro$1lens lens) with (sub$1wavelength subwavelength)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 01:24
S99	54	(dennis near prather).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 01:29
S100	2	Jp-2000039503-$ 5-251673	JPO; DERWENT	OR	OFF	2009/11/12 10:51
S101	3	("2001108812").PN.	JPO; DERWENT	OR	OFF	2009/11/12 10:53
S102	0	(("nipponneartelegr).asn.and((TAMECHIKAnearEMI).in.or(KOMATSUnearKAZUHIKO).in.or FUKUDAnearHIROSHI).in.)").PN.	JPO; DERWENT	OR	OFF	2009/11/12 10:57
S103	90	(nippon near telegr).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or(FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 10:58
S104	0	(nippon near telegr).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or(FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT	OR	OFF	2009/11/12 11:01
S105	3	(nippon).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or(FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT	OR	OFF	2009/11/12 11:02
S106	3	(nippon near telegraph).asn.and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT	OR	OFF	2009/11/12 11:49
S107	2	(nippon near telegraph).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or FUKUDA near HIROSHI).in.)	JPO; DERWENT	OR	OFF	2009/11/12 11:49
S108	3	("2001108812").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 12:46
S109	23	(pixel same (wiring near layer) same (photodiode photo$1diode)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 18:13

S110	23	S109	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/12 18:13
S111	5	("20050035376" | "4694185" | "5371397" | "5479049" | "6211509").PN. OR ("7420231").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/12 18:20
S112	1	(12/418713).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 12:00
S113	1	(12/418783).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 12:00
S114	1	(12/434474).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/13 13:23
S115	2	("6524772").URPN.	USPAT	OR	OFF	2010/05/20 17:27
S116	16	("20030044729" | "20030168679" | "20040042081" | "20040125048" | "20050057815" | "20050152036" | "20050195485" | "20060102827" | "4994664" | "5227915" | "5561558" | "5742433" | "5815327" | "6166854" | "6524772" | "6927915").PN. OR ("7692129").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 17:33
S117	16	((KIMIAKI) near2 (TOSHIKIYO)).INV.	US-PGPUB; USPAT	OR	OFF	2010/05/20 18:58
S118	12	("20060284052" | "20060285228" | "20070146531" | "20070164329" | "20080011937" | "6927915").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/20 19:01
S119	52	("20020001066" | "20020135825" | "20030044729" | "20030164922" | "20030168679" | "20030189755" | "20030227684" | "20030231395" | "20040042801" | "20050195485" | "20060102827" | "20060125948" | "20070091453" | "4403827" | "4994664" | "5477383" | "5555129" | "5561558" | "5561683" | "5742433" | "5978139" | "6327086" | "6545808" | "7038184" | "7390532").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/20 19:03

S120	2	"7420610".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/20 19:08
S121	13	("20050122417" | "5633527" | "6147390" | "6188094" | "6211916" | "6583438" | "6605850" | "6656761" | "6665014" | "7075164" | "7136217" | "7245324" | "7265432").PN. OR ("7420610").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 19:08
S122	3	("20060102827" | "6107000" | "6162590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 19:11
S123	5	("20030044729" | "20030164922" | "20060028728" | "20060125945" | "20060125948").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 19:13
S124	13	("20020117671" | "20030197210" | "20030231395" | "20040248337" | "20050023434" | "20050061950" | "20050122593" | "4994664" | "5561558" | "5696371" | "5978139" | "6927915" | "6947215").PN. OR ("7667286").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/20 19:18
S125	4	((KIMIAKI) near2 (TOSHIKIYO)).INV.	USPAT	OR	OFF	2010/05/20 20:09
S126	2	pixel and (different adj width adj lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/20 20:24
S127	6	("20030168679" | "20060102827" | "4994664").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S128	1	"10576273"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S129	1	"10576273"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S130	2	("20050110104").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23

S131	0	Jp-2000039503 5-251673	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S132	2	Jp-2000039503-$	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S133	4	Jp-2000039503-$ jp-052251673-$	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S134	12	(Toshikiyo near2 Kimiaki).in. and matsushita.asn.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S135	48	("3746454" | "4410804" | "4644148" | "4649351" | "4708436" | "4878735").PN. OR ("4994664").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S136	4	("20050161589" | "4994664" | "6100525").PN. OR ("7329871").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S137	0	("jp-2001-108812$").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S138	0	("jp-2001-108812").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S139	0	("jp2001108812").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S140	3	("2001108812").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S141	0	("("photosensor"Photo$1sensor"lightdetector""lightsensor""imagesensor""chargecoupleDevice"CCD (solidnearstatenearimag$3)").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S142	113217	("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S143	155	(light near transmit$4 near (film layer)) with (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S144	38	S142 and S143	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23

S145	6	S144 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S146	291	(light near transmit$4 near (film layer)) same (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S147	75	S142 and S146	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S148	16	S147 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S149	452185	("photosensor" "Photo$1sensor" "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S150	15239	(light near4 (film layer)) same (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S151	2161	S149 and S150	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S152	58	S151 and (pixel near2 array) and (unit near2 pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23

S153	12	S152 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S154	4	S153 and ((red green blue) with pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S155	1471	S142 and (pixel near2 array) and (unit near2 pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S156	1015	S155 and (photodiode Photo$1diode Photodetector photo$1detector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S157	278	S156 and ((red green blue) with pixel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S158	41	S157 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S159	0	"1010434109"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S160	0	"10434109"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23

S161	2	"6734031".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S162	2	("20030215967").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S163	0	(pixel same (wiring near layer) same (photodiode photo$1diode) same aperture) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S164	24	(pixel same (wiring near layer) same (photodiode photo$1diode)) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S165	113217	("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S166	4	S165 and ((light near transmitt$3) with (BPSG)) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S167	1332	257/291.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S168	943	S167 and S165	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23

S169	2514	257/432.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S170	1007	S169 and S165	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S171	12	("20030168679" | "20030215967" | "20040000681" | "20050061950" | "20060102827" | "4994664").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S172	48	("3746454" | "4410804" | "4644148" | "4649351" | "4708436" | "4878735").PN. OR ("4994664").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S173	3	("2001108812").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S174	16	((KIMIAKI) near2 (TOSHIKIYO)).INV.	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S175	0	("20020117671" | "20030197210" | "20030231395" | "20040248337" | "20050023434" | "20050061950" | "20050122593" | "4994664" | "5561558" | "5696371" | "5978139" | "6927915" | "6947215").PN.").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S176	25	("20020117671" | "20030197210" | "20030231395" | "20040248337" | "20050023434" | "20050061950" | "20050122593" | "4994664" | "5561558" | "5696371" | "5978139" | "6927915" | "6947215").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S177	4	("20060284052" | "20060285228" | "20070146531" | "20070164329").PN.	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S178	1	("20060102827").PN.	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S179	15	("20030044729" | "20030168679" | "20040042081" | "20040125048" | "20050057815" | "20050152036" | "20050195485" | "20060102827" | "4994664" | "5227915" | "5561558" | "5742433" | "5815327" | "6524772" | "6927915").PN.	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S180	2	("6524772").URPN.	USPAT	OR	OFF	2010/05/22 14:23
S181	2	("6524772").URPN.	USPAT	OR	OFF	2010/05/22 14:23
S182	49	("4246338" | "4637697" | "4679901" | "4708436" | "4846552" | "4895790" | "4936665").PN. OR ("5227915").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23

S183	4	("20030164922" | "20060028728" | "20060125945" | "20060125948").PN.	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S184	4	("20030164922" | "20060028728" | "20060125945" | "20060125948").PN.	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S185	4	"11423776"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S186	19	("20030044729" | "20030044729" | "20030168679" | "20040042081" | "20040125048" | "20040125048" | "20050057815" | "20050195485" | "20060102827" | "20060278948" | "20060285228" | "20070035721" | "20070146531" | "20070164329" | "4994664" | "5227915" | "5561558" | "5742433" | "5742433" | "5815327" | "6524772" | "6927915").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S187	4	"2000039503"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S188	4	"11423776"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S189	17	(phase with grating with image with sensor).ab. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S190	4	11/423776	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S191	818	257/432.cor.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S192	2	(("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride")) same (layer film) same refrative	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23

S193	12180	(("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride")) same (layer film) same refractive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S194	8	S191 and S193 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S195	43835	(("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride")) and refractive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S196	24	S191 and S195 and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S197	2	("6524772").URPN.	USPAT	OR	OFF	2010/05/22 14:23
S198	9	("4643752" | "4645523" | "5073007" | "5151826" | "5161059" | "5486950").OR. OR ("5815327").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S199	13	("20050122417" | "5633527" | "6147390" | "6188094" | "6211916" | "6583438" | "6605850" | "6656761" | "6665014" | "7075164" | "7136217" | "7245324" | "7265432").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S200	3	S191 and (grating near5 lens) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S201	5	S191 and (grating same lens) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S202	13	S191 and (grating) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23

S203	16	430/231.ccor. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S204	395	430/321.ccor. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S205	342	(wavelength and incident and (ray light) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))).clm. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S206	20	(wavelength and incident and (ray light) and shorter and (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))).clm. and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S207	107	((wavelength with incident with (ray light) with shorter) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S208	2	("20030044729").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S209	28	("20030044729" | "20030168679" | "20040042081" | "20040125048" | "20050057815" | "20050152036" | "20050195485" | "20060102827" | "4994664" | "5227915" | "5561558" | "5742433" | "5815327" | "6524772" | "6927915").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S210	49	("4246338" | "4637697" | "4679901" | "4708436" | "4846552" | "4895790" | "4936665").PN. OR ("5227915").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23

S211	2	"7297919".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S212	317	((grating near4 lens) and (image near2 sensor)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S213	2	"5742433".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S214	61	("4400057" | "4798446" | "4936665" | "5073007" | "5218471" | "5227915" | "5283690" | "5315676" | "5377044").PN. OR ("5742433").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S215	2	"6821810".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S216	113217	("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S217	34	S216 and (microlens with (offset off$1set off$1axis offaxis)) and @ad< "20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S218	12	("20010026322" | "200300071271" | "5610390" | "5682203" | "5734155" | "5986704" | "6008511" | "6344666" | "6518640" | "6642965").PN. OR ("7427742").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S219	2	("20040042081").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23

S220	0	("200501954851").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S221	2	("20050195485").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S222	4	S216 and ((microlens micro-lens micro$1lens) with (sub$1wavelength subwavelength)) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S223	11	S216 and ((microlens micro-lens micro$1lens lens) with (sub$1wavelength subwavelength)) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S224	57	(dennis near prather).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S225	2	Jp-2000039503-$ 5-251673	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S226	3	("2001108812").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S227	0	("(nipponneartelegr).asn.and((TAMECHIKAnearEMI).in.or(KOMATSUnearKAZUHIKO).in.or FUKUDAnearHIROSHI).in.)").PN.	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S228	102	(nippon near telegr).asn.and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or(FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S229	0	(nippon near telegr).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or(FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S230	3	(nippon).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or(FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23

S231	3	(nippon near telegraph).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or FUKUDA near HIROSHI).in.)	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S232	2	(nippon near telegraph).asn. and((TAMECHIKA near EMI).in. or (KOMATSU near KAZUHIKO).in. or FUKUDA near HIROSHI).in.)	JPO; DERWENT	OR	OFF	2010/05/22 14:23
S233	3	("2001108812").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S234	24	(pixel same (wiring near layer) same (photodiode photo$1diode)) and @ad<"20031218"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S235	24	S234	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S236	5	("20050035376" | "4694185" | "5371397" | "5479049" | "6211509").PN. OR ("7420231").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S237	1	(12/418713).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S238	1	(12/418783).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S239	1	(12/434474).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S240	2	("6524772").URPN.	USPAT	OR	OFF	2010/05/22 14:23
S241	16	("20030044729" | "20030168679" | "20040042081" | "20040125048" | "20050057815" | "20050152036" | "20050195485" | "20060102827" | "4994664" | "5227915" | "5561558" | "5742433" | "5815327" | "6166854" | "6524772" | "6927915").PN. OR ("7692129").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23

S242	16	((KIMIAKI) near2 (TOSHIKIYO)).INV.	US-PGPUB; USPAT	OR	OFF	2010/05/22 14:23
S243	12	"20060284052" | "20060285228" | "20070146531" | "20070164329" | "20080011937" | "6927915").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S244	52	"20020001066" | "20020135825" | "20030044729" | "20030164922" | "20030168679" | "20030189755" | "20030227684" | "20030231395" | "20040042801" | "20050195485" | "20060102827" | "20060125948" | "20070091453" | "4403827" | "4994664" | "5477383" | "5555129" | "5561558" | "5561683" | "5742433" | "5978139" | "6327086" | "6545808" | "7038184" | "7390532").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S245	2	"7420610".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/22 14:23
S246	13	"20050122417" | "5633527" | "6147390" | "6188094" | "6211916" | "6583438" | "6605850" | "6656761" | "6665014" | "7075164" | "7136217" | "7245324" | "7265432").PN. OR ("7420610").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S247	3	"20060102827" | "6107000" | "6162590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S248	5	"20030044729" | "20030164922" | "20060028728" | "20060125945" | "20060125948").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S249	13	"20020117671" | "20030197210" | "20030231395" | "20040248337" | "20050023434" | "20050061950" | "20050122593" | "4994664" | "5561558" | "5696371" | "5978139" | "6927915" | "6947215").PN. OR ("7667286").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/05/22 14:23
S250	4	((KIMIAKI) near2 (TOSHIKIYO)).INV.	USPAT	OR	OFF	2010/05/22 14:23
S251	2	pixel and (different adj width adj lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/22 14:23
S252	4	"20030168679" | "20040005482").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/03 10:55
S253	0	257/184.ccls. and (light near transmit$4 near (film layer)) with (("TiO.sub.2" or "ZrO.sub.2" or "Nb.sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT	OR	ON	2010/09/03 12:00

S254	1	257/184.ccls. and (light near transmit$4 near (film layer)) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb. sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT	OR	ON	2010/09/03 12:01
S255	0	257/185.ccls. and (light near transmit$4 near (film layer)) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb. sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT	OR	ON	2010/09/03 12:01
S256	0	257/186.ccls. and (light near transmit$4 near (film layer)) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb. sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT	OR	ON	2010/09/03 12:01
S257	1	257/187.ccls. and (light near transmit$4 near (film layer)) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb. sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT	OR	ON	2010/09/03 12:01
S258	0	257/188.ccls. and (light near transmit$4 near (film layer)) and (("TiO.sub.2" or "ZrO.sub.2" or "Nb. sub.2O.sub.5" or "Ta.sub.2O.sub.5" or "Si.sub.3N.sub.4" or "Si.sub.2N.sub.3") or ("titanium oxide" "zirconium oxide" "tantalum oxide" "silicon nitride"))	US-PGPUB; USPAT	OR	ON	2010/09/03 12:01
S259	117286	(("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/03 12:03
S260	0	257/188.ccls. and S259 and (light near transmit$4 near (film layer))	US-PGPUB; USPAT	OR	ON	2010/09/03 12:03
S261	23	257/188.ccls. and S259	US-PGPUB; USPAT	OR	ON	2010/09/03 12:03
S262	157	257/184.ccls. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/03 12:04
S263	150	257/184.ccls. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:04
S264	9	257/185.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:04
S265	13	257/186.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:04
S266	11	257/187.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:04
S267	5	257/188.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:04
S268	1	257/189.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:05
S269	4	257/190.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:05

S270	102	257/225.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:05
S271	23	257/226.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:05
S272	17	257/227.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:06
S273	29	257/228.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:06
S274	40	257/229.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:06
S275	35	257/230.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:06
S276	47	257/231.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:06
S277	79	257/232.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:06
S278	136	257/233.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:07
S279	16	257/234.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:07
S280	316	257/291.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:07
S281	926	257/292.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:07
S282	550	257/432.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:08
S283	17	((KIMIAKI) near2 (TOSHIKIYO)).INV.	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:18
S284	1	"10576273"	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:34
S285	134	257/294.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:38
S286	19	257/14.cor. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:38
S287	750	257/e31.127.ccls. and ("photosensor" Photo$1sensor "light detector" "light sensor" "light$1sensor" "image sensor" "charge couple Device" CCD (solid near state near imag$3)) and substrate	US-PGPUB; USPAT	OR	OFF	2010/09/03 12:38

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